Rec'd Jan 7 1873
Ans — 8

Post Office Department
Bureau of Rivers & Harbors
Washington D.C. 18

2 Jan '73

To Dr Engelmann.

Happening a few days since to be near the steamboat where C. Hoshin was remembering that I was found fault with my "Chinese" manipulated specimens I thought I would do my best to procure for you such as I could. I now send the package containing a little package containing a few more (tho' far from the largest with which I should like to please you) with specimens & also fruit. The little bag contains the cream colored powder of C.H. — seeds of Stillingia Sebif. — of Bumelia Tenax. Canna Flaccida — and (these by Mrs Riley!) Specimens & bulbs. Fruit & a certain insect on trees & Celtis Occidentalis — (Sugar Berry tree)

I showed the Pres. your note & he was much pleased with your kind remembrance. Send me more seeds if you have any.

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^ also drupes of cabbage Palmetto (S. Pal). All the trees y Cells are covd with hundreds of them — at least those trees wh grow near Saltwater. Cut one open & you'll see! as for S. Sabal Palmetto out of a hundred drupes it is difficult to find one wh is not — sometimes — in the Spring the last will commence to sprout! Examine them carefully — you will see a small circle surrounding the original punctures — Thus — ○○ slice it off ^ you will discover the egg. It is possible these things will be found to be an Entomologist. C. Hyst is very rare about me & seemingly but few trees fruit — most of the drupes had fallen — some still clinging to the short shaggy sarmentose ♀ stems "quills of the fretful Porcupine"! I would not advise a "green horn" to meddle too much with this bristling individual! As well attack a Porcupine recklessly! Examine one of the lately (all) in fruit — stalk with new soft black "bananas" a little pushed aside at its base — just at its base — two interesting leaf, the new shoot about 4–6 inches

MISSOURI BO. GARDEN PA...

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Rec'd Jan 7 1873

in. height — Flies

18/a

I now have written this note Explan't to accompany the Dealea but I had hard labelled it when I was called off. a long distance & mean so write now. Speaking of Y. Al. when in Charleston I saw — on South Bay in the old Spanke on Poyas yard — one I think contains 20 feet high — say 15' but I looked at it carefully. I was quite astonished — it was surmounted by other trees magnol I think &c. When you go T. Ch. look at it!! I forgot also to mention the enecat — tubes (?). wh I found in a deep rich field Back at Newport — Sat Terms

GEORGE ENGELMANN 1809-1884

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18

what they are. I enclose seeds of Hibiscus Lucan from same region — ornamental — flas yellow — large. I stated to you that I had sent R.S.11 to Mrs Rowlee & also mistletoe seeds — the packages (2) labels. The tree I visited with must be an evergreen for my calculations. I enclose Twigstock — Twand from Shadow & Spring "cove" leading to Salt water & also Acanthospermum Xanthe from Dry Sandy Soil on bluffs.

If not too late I wish that the numbers may be a little on a smaller to you in all your Work!

Yr Ly & Affectionate Bro

Rec'd March 22
Ans May 23

Bellevue Neb 19

Dr Engelmann

My Dear

I do not believe

to answer Yr last

was as welcome as ever

(like a sale from Arabi

Ter blest !(!) but unto

am very sorry to assure

you that it seems utterly

impossible for my plants

Agaves X'd ever to

have been connected

that Thurber "if they be

monstrosities" — they were

separate & original monstrosities

this ! — for, I have in

all found 3 plants (I

Sair I believe formerly 2)

one (~~the first~~) wh I found

growing in June 1871 on

the side of the road about

acct my writing up notes than usual. My writing is annoying
curtailing fingers & wrist - & makes
a "causeway" mean so
Yr
Asclep - Perennis (Walt) handy. A. incarnata. 2 Cynanch. 3 - 4 Blut-hight, almost

18 inches or two feet from the
nut, — the other two a crop
an old fence & dam with fallen
up ditches &c on the edge of
a cotton field. — Some 20 - 25
feet from the one on the
road. On each side of this
fence a dam there is a
tangle hedge of Sassafras,
Cassena (Ilex), Persimmon,
Cedar, — grape vines, & various
briars &c, to say nothing of
a jungle of brambles also through
the roots of which at first it is the
lowest & sandiest of soils it
would be I apprehend a pretty
hard matter for any plant
of the Asclepiadaceae to
push out a runner in any
sublerranean [illegible] that distance
& thrust such obstacles.
I shall send a few tufts of
this that idea up tomorrow!
& immediately upon receipt
of the plants in the edge of the
bed might be thinned out this

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spring I dug them up & found 2 19a
plants growing together – at
least I can find no connection be-
tween them. During the summer
I had observed the separate stalks
but supposed them to be one &
the same plant. The flowers
on both were deep blood red
& nearly similar to the one
on the road both as to shape
& colour, nor was there the
slightest variation in the fls
of 1871 in the road plants.
Those in the field were not
discovd until last summer
(1872). Well! this is much
a-do, but if the thing is worth
working after at all this worth being
minutely accurate about & so
I give it to you with all
the variations. I believe I
(over) saw no fruit was borne
either in '71 or '72 tho I watched
carefully & even cut away
one or two overhanging weeds of
fennel &c. so that the
insects might be attracted

& I so have a fair chance. Two
19 to wds I now have in a box &
in a former condition — the third
plant still remains in the war
side ~~[illegible]~~
to collect
~~[illegible]~~ dust from the hoofs of
~~[illegible]~~ dirty Africans hoofing.

cotton field

Racemes no 2: 72

hence & dam to

x x x

Rec May 26
an 24/12

"Stiles P."

Maps

20

Gas Isld S.C

22 May/73

To—

L. F. Engelmann

M.D.

My Dear Sir—

For the last few days I've been nursing in a sick room in Chelsea, but having an opportunity to slip over to my old haunts here — I've been re-luminating myself among old scenes & faces!

I did not suppose to look up a Yucca patch,— I mean the spoon-shaped Y. f— (No 4), & found the plants just commencing to bloom.

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No. 200

The flrs stalks & flrs resembled
Y. of No. 1 more than any
of the others. I was chiefly
hasten for the purpose of look-
ing for the moth that I ex-
amined these plants. But 3
or 4 flrs were partially open
2 of wh had the moth: 9
captured but one - wh I en-
-close in the flrs, — I really
have not examined it — but
it seems to me rather
smaller than those of last yr.
When I left 73 — none of
the plants of No. 1 nor any
others were flowering — from
their condition at that time I
suppose they are only just now in
bloom: Very much later therefore than
last yr! It is possible that the
larva in my tumbler have bloomed
out into moths — if so when I get
home will inform you.

I observed the same white
efflorescence (?) on the leaves
of Y. aloifol & at different places
on the Isls. I have no time
for more. Yr truly & respt
J. H. Ramsbottom

last July 21.

Yes, this is the same as I saw
escape.

Rec'd June 6
Ans July 12

21

Bellefontaine, O.
June 3, 73

Mr. Engelmann

Dear Sir — Thanks
for your kind & welcome letter
just to hand. I shall really
hope it succeeds in
having all pure kinds
of Yuccas — & among
them I am sanguine
of the Yucca filamentosa
(No 4) — a small white moth
flower there. These plants were
rather inferior — bearing but few
flrs, — only 2 or 3 of wh were
open i — they resembled however
as I believe I remarked in
my note my Y. f No 1 abun-
dant. The two cleared Y. f. (No 4)
did not bloom here last year
nor this, — but evidently it is
the earliest bloomer of them
all! It bloomed in April last Y.
flr on Jas Isd, & in the same
month also if I mistake not
at Flat Rock in the middle county
This Yca also on Jas Isd, altho'
later than last Yca, — it still
precedes them all.

The leaves
dust & ashes!

I congratulate
Elliott on his

Dates time, Summing
Mo. a Sojourn
Illinois!

on a week!! O, yes said he
in Illinois returns
conjunctures the 2 Yuccas

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upon my return here shortly after writing you I found Yf. No 1 only in bud,— Yesterday however they were blooming freely,— presenting the same appearance as last Yr. Evidently this variety (?) lacks for the abundance & beauty of the flrs & its contrasty pyramidal habit,— to say nothing of the smooth & tender green of the flr stalk in contrast with the white blooms — is,— far more ornamental than all the rest. In these flrs I found a few moths, the smaller apparently the same as that one sent from F.J.S.,— the larger such as I sent you last Yr. They are I imagine One & the same,— the smaller most probably are the males — the larger the females. Unfortunately I have not the beautiful drawings of the insect wh you sent me to compare with them; — as My father was returned them Them & they are mislaid among his letters. In one flr I found both the smaller & larger all together, & for the first time found a flr the stigmatic tube of wh was full of pollen wh looked as if it had been handled or chewed as might say: This one also had several moths,—

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already — but I send them.

I did not see however the insect or insects at work. I enclose specimens of both kinds. As regards No 2 & No 3 — the same succession as to blooming still holds. No 2 is now 6—8 ft high, — purple, but buds just forming; No 3 about 2 ft & presenting same appearance as before, — insects already commencing to feed & eat, — This in accordance being more soft & tender & full of juice than either No 1, or No 2. I shd like greatly to send you at once some other good fruit of Y. glauca, but I do not expect to do so. My friends on I & S.W. watched their plants carefully they told me, & "no fruit," the same at Titusville where I think I saw at least 30 large plants — about half of which had blossomed, — but "no fruit"! and yet up there but a few feet from Y. g. — I saw Y. al. (Lstac) fruiting largely! Fault of insect? — yet Y. al was unaffected why not Y-g? The late blooming in the fall probably. (Very curious to say the least. I made every effort to get the fruit of Y.g from Hillers Ht, — a negro there told me that along the beach they did fruit, — I tempted him with money — he brought me the flys & scraps of the same late last fall but "no fruit" even has he sent me! My gardener haunts there too & me they hunted the beach — riding

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2/15 miles – but "no fruit"! Doubtless ye best chance is the Fla lady – for I am persuaded they fruit more largely to the "Southward"! However she still keeps a tryin', as our "cracker" say!
Saw my wonderful "Arenaria Sanguinea" yesterday on the roadside, – one emitted only in bloom & perfectly gorgeous in gold & vermilion! You must go to the tropics for anything approachable thereto, – setting aside it is "mushroom fine". I shall await its fine blooming & then carefully pulp & send the whole to you. The bud seem more conical than the same of A. Tub. with the cleft leaves of the crown thrust downward thro' the corolla

! The two plants wh I dug from the edge of the cotton field are now in a box in my piazza, – one an upstanded, – with blown missles of this mo. – fortunate that I took them up as the plough ran over their site. What is this thing? – is it a true arenaria? I send spec of A. longif. from wet pine land 15 miles off & also Asclep. Michx. growing with it, – the latter deliciously fragrant. never saw it here before. Excuse these – had to press them in my pocket book, – on my way to Chester! And now let me tell you of a sight I saw! Returning from Chester I stopped at a village 25 miles from here to see a patient, & was sent home by a new route which took me through some old rice fields now mostly abandoned tho' in old days I've seen many a golden harvest then on my way to court. In one of these old rice-fields I saw a square of from 10 to 15 acres filled with the water lily (Nymphaea odor). A mass of white & green extending over the whole, I do not think there was the space of 3 ft without these splendid flos – indeed it was more like a fall of snow – when first approaching the banks! The water black as ink, but delicious cool & sweet, & pure, & coots & water hens disporting themselves therein, now ducking & diving under – or walking upon the broad green peltate leaves, or flying off for a little distance to re-peat their revellings! I could but say to myself "how my Father would have enjoyed this sight" – he whose enthusiasm was so intense & so easily kindled! To the darkey who drove me I said "if you could carry that field home & all to N.Y & sell it as a show – you'd make a fortune!" Oh yes said he "I reckon I would" – A little ironey I think in said darkey – he was thinking of Paul's act

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Rec'd June 13 1873
Ans July 12

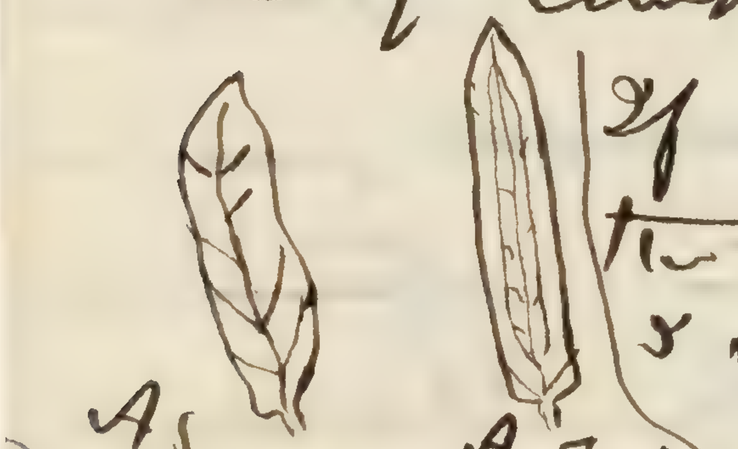
9 June 22

By to days mail
~~I~~ I send a box cage
containing the dried spec
of Acacia Sanguinea, —
for comparison the stem
has been cut into three
parts. For the purpose
of distracting the attention
of P.O. persons from A S
(who I trust) on my
recent enquiries!) I
shall place some more
conspicuous objects in
the box cage such as
Bumelia Tenax — Tetranthera
(Laurus) Sericea — ("Sand Hills")
P. Glabra with most of
the leaflets of the fronds.

As before remarked
it seems hard to ascertain
P. Fend any "Tangible" dis-
-tinctions" in the foliage

122a

Of A. Sanguin – it does seem to me however on more careful Examination that the veins are differently arranged as you will see by comparing the leaves enclosed.



If you hold them up to the light you will see what I mean. The leaves of A.S also are generally more oval – more rounded on the edges – with the point of leaf directed to them downwards (I in my box spec almost hooked like a claw) & also it seems to me thinner – softer & smoother. Whether such distinctions will hold after Examining many diff^t specimens is a question. I may mention another thing. Asclep Tuberosa excludes all the other Asclepias save A Michauxii (So far as I know) does not exude white milk. Nor does Acerat. Sanguin, but if I'm not mistaken Acerat. Longifol does. The fact is our A.S wonderfully resembles A. Tub. in growth & I will defy any one to say whether before the plant blooms – may even before the bud became tinged with its deep hue – or rather I shld say before the crown leaves peep out of the corolla supported by the calyx. I might make a shrewd guess from having seen the plants growing & by examining carefully the leaves, but hardly any body else – not even Father Sinon or even Dr. E! Pretty strong is it? I send leaf of a splendid Hibiscus (H. grandiflorus probably) growing in a box, 5 ft high, from Hilton Hd. I've only seen capsules – when it blooms will send spec. J. H. S.

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P.S. I had hoped this pm to see for myself the insect at work, but the plants near me did not bloom & those of yucca No. 1 wh did bloom (but at too great a distance for me to reach them all night), were not impregned, to — & not a capsule to be seen [either] 3 or 1. 2, or 3! — a great disappointment.

Yrs ever Engelmann

[1914 last week]

Thu July 24 My dear —
Ans same day

I read yr "notes on the Yucca" last week & read it very carefully & with increased pleasure & interest as I went on. Many thanks for it & for yr courtesy in reference to myself & the little aid I have been able to give you. It was terrible however to see one's name staring at him in misstatements typed in that fashion, — but it is possible I believe to recover from such things! Your "notes" seem unusually thorough & accurate, & -doubly myst. S. you have based on well & not on a sandy foundation! And now is the Book of Yucca closed by you, or are you still disposed to continue yr investigations, — because I really wish to tell you of a recent visit of mine to the Sea beach (the true Home of Yuccas!) wh might be of interest to you atho' I failed again in finding fruit? At any rate I shall venture, for after all such investigations can hardly ever be said to be closed, & I dare say you will be the last on to say so. Well! — A day or two ago I was summoned to the Isle of Wight (about 10 — 12 miles from me) to see one of the workmen engaged on a Light House now being erected by the Yankees for us — on

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my way I stopped for a minute at the little isl^d in May River from wh^ch I sent you the bark of Y. aloifolia & when there as a very flimsy chaparral" of these plants growing almost in the salt water. I found a great many in fruit, some in flower, but several in early bud wh^ch will bloom probably about the last of this month. I gathered some 8 or 10 "heads" with fruit of all sizes, for the purpose of looking for the young larvæ of both the seed eaters & the pulp-eaters, — So while the darkey was rowing I amused myself with slicing the "bananas", — not however a very pleasant task in the hot marshes with the sun almost vertical! The result was that in a few of the most matured fruits I met with perhaps 5 or 6 of the seed eaters right in the seed, but they were still young & undeveloped, — it was mostly from their black or brownish heads that I detected them under the microscope — a very low power too! As undeveloped larvæ as they were they were using their jaws and were already eating through one seed, & in no case over two. The heads of these larvæ corresponded with the very accurate & beautiful representations of the same in Mr^s Riley's notes, & I have little or no doubt but that these are the same wh^ch I sent you last y^r. In every instance I detected their presence before I saw them by a small decayed spot on the outer pericarp wh^ch invariably led down to the larva in the seed, but this decayed spot or pit was in no way to be confounded with that peculiar little depression wh^ch I often noticed last y^r as leading to the pulp-eaters. You will remember that I stated the same to you last y^r as occurring in the fruit one or two instances when the seed eaters were detected, — but I afterwards failed to detect them again by the pit or decay,

I saw no man can say that transformation has been for until the [illegible] is from [illegible] — [illegible] — [illegible] —

& that Whenever I came across them again it
was as it were only by chance. My sol-
-ution of this is not that the young & tender
capsule had been perforated by the ovi-
-positor of any moth thus inducing the
decay, — but that the mere presence of the
"foreign body" of a larva (to speak surgically!)
in some young & perhaps originally not
very sound fruit produced the decay, for
it was generally in the most dependent
part & when the seed were not very far
from the surface. At any rate in several
large & sound fruits last yr the larva was
discovered tunneling right away, & not the
faintest indication of him on the healthy green
rind. Mr. Riley in his beautifully written
notes speaks of the fruit of Y. aloifol being
"infested" with the larvae of the Yucca moth.
Certainly the phrase is too strong, for really very
few have been found in the careful Examin-
-ation of a great many sound & maturing fruits,
but "hundreds" I may say I have found in
the dry capsular ones, & "hundreds" of the
pulp-eaters in these also of Y. aloifol. It may be
that the Yucca moth is fully as necessary to the
impregnation of the flr of Y. aloifol as those of
Y. filamentosa & the rest, — only the conditions
are not favorable to the hatching of the eggs
& to their subsisting after being hatched, —
— but that will hardly be Darwinian
will it? — and Mr. R— seems to be a
Darwinian! In all of those wh I Examined
in the boat I failed to find a single pulp
-eater, — it is not at all unlikely that these
eggs were there not yet hatched & that I only
failed to see them with a weak glass.

Examined in Davenport on Dau[illegible] being more mature but I found no scarcely full of pulp-eaters

I reached Dampier Isd after long & tedious
pulling, & finding my patient quite sick de-
-termined to remain with him that night, —
and such a night! what with the heat
& steam of a sweltering little cabin, — the
sighs & groans & tossings of my Bil-fever
patient ("exac. visc. cum. gem" !!) & "fighting"
the mosquitoes, & the stifling smoke & what
not, — I was limp & used when the day broke —
for I had hardly closed my eyes! Such a night
said I surely deserves some compensation so
after looking after my sick man I strolled
to the beach in pursuit of Yucca, & pleasure,
& sea-breeze! — and a most delightful
stroll I had, — wanting only a companion!
The ground immediately around the light House
where in old days a fine mansion stood
with beautiful shrubbery & walks — now all
choked & overgrown — is rather light &
sandy, ~~but~~ & yet ~~how~~ how generous, as the
growth of bushes &c will attest. Here
& there along the little beach were hundreds
-dition to two feet & over, & none of them
branched so far as I cld see. I saw no
flowers, but hundreds in fruit & ~~bud~~ in bud
in bud as in May River. The fruit was
of all sizes & ages, & I gathered from their
maturing condition the flrs had mostly
bloomed in the last of June or earlier.
The leaves were generally incrusted with the
white efflorescence but not to the same ex-
-tent as on Jones' Isd, & in one case
every "banana" on the beach was similarly
incrusted, — so much so that I thought it
must be salt, but on tasting it I found it
was not so.

GEORGE ENGELMANN PAPERS

St Michaels. July 19th 1873

(5) Although so many Y. aloifol were to be seen I cod find but very few Y. gloriosa & most of these were quite small, growing just above high-water mark on the edge of the beach; a little higher up however on a [redacted] bluff, & growing in the pick shrubbery under the shadow of Live-oaks I saw two of the most luxuriant Y. gloriosas I ever saw, & the 5 leaves wh I have sent you are from these 2 plants. Their stems were not even four feet high, but very thick & stout, & the leaves as you will see both longer & thicker (?) & more than any wh I had before seen. The leaves of one of them as you will see seem disposed to become spoon-shaped like the broad leaved Y. filamentosa (No 4) & indeed I may say that I am always reminded of this form (Y. f. No 4) both as to the colour [redacted] of the leaf, as well as its mode of growth whenever I see a gloriosa. It wod seem to be a transition state between Y. aloifol & Y. filamentosa, nor wod I be surprised yet to find its [redacted] fruit even tho' it be baccate [redacted] differing greatly from Y. aloifol. It is also a little inclined to be filamentous, & on this sea-beach with a very short stem. Evidently it is only in richer ground than its native spot & under cultivation that it assumes larger proportions as to stem & leaf — doubtless in this case the shade had much to do with the length & size of the leaf. The dead flower-stalks of one or two of the tallest weed tho cultivated ones I saw. With the luxuriance & beauty of these two plants I was greatly pleased, but they disappointed me in not giving me my long sought fruit!

The * Away off on that little headland of drift sand with a few hillocks heaped by the wind I see a few clusters of shrubs or what I take to be gloriosa & there I confidently expect to get the fruit wh had matured during the winter! ———

I now leave the region of the Lighthouse & continue along the little shell beach for a half mile or more — the Y. aloifolias becoming scarcer & more stunted. I at last approach the headland of white sea-sand, — distinctly make out my yuccas, & see the beautiful Uniola drooping & waving in the wind; but alas! what seems to be a vast marsh with a little creek intervenes between us & I have fears of not reaching my island of Calypso. ~~But~~ finding the marsh to harden I at last struck a negro path wh safely carried me over the shelly bed of the creek, (it being fortunately low-water) & here I was at last in the true Home of Gloriosa among the shifting & drifting sand of the ocean-beach. I now faced Tybee & Tybee light — still more sea-ward & more to the Southward. Here indeed was a great many plants of Y. gloriosa, some on the beach just above high water, — others still higher up, indeed they were to be seen everywhere, & what to me was most remarkable there were as many or more of No 4 (Y. filamentosa — "a Latifolia") as there were of Y. gloriosa. Of Y. glor. a few were 3 or 4 feet high with leaves as before sent you, — or more like the one from Paris — I sld wh you have but they all looked sun-dried & ragged enough as if they'd taken many a storm. In vain did I look for fruit either dry or baccate, although I found many stalks of last fall 4–5 feet high, but not the trace of fruit either on them, or among the leaves, or on the ground. A very great disappointment to me, for I had ~~had~~ always hoped that if I ever reached the sea-beach I cld settle the question for all time. Evidently none of them had borne fruit wh I examined, and I examined many, extending

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my walks until I left the green region of air behind me. Two thirds of all the plants of Y. had scarcely any stem, & were buried in the earth like Y. latifolia from which sometimes I did not distinguish them without looking more carefully. Of these last — I mean Y. fil. — arenicola (Y. latifolia) they were precisely like those sent you from here, & I am glad to find Fort Motte, — only the latter I mean were growing in sandy & clay soil combined were more luxuriant, — the leaves being broader & longer. Of Y. aloifol I observed here on the beach only 2 or 3 plants, but they looked as if they didn't like it — nor did I see any others of the 3 filamentose varieties — such as No 1, "foliis lanceolatis", — or No 2, Lævigata, so common on Hilton Hd immediately opposite — across Calebogue, or No 3, Bracteata, about me on the main-land; — Only latifolia; I found a good many plants of this with the stalks wh had doubtless bloomed last May or perhaps April (for it bloomed in that month once on 9 or 10th). I brought 2 or 3 away wh were well fruited & almost every capsule I cut open perforated by the Yucca moth larvæ. They are very nearly the same I think as those formerly sent you from James Is. & by my Father, & some remind me of Yucca in St Louis — Angustifolia was it?

In my package sent you yesterday '73 I enclosed a good many of the above capsules, & also a little bag containing seed (mostly good) of last year ('72) from one or two plants of the same kind on the same spot. Also a specimen of "sea side oats" — Uniola Paniculata, and the

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large leaves of Florida as before mentioned. I may as well mention that during my walk I found Batatas Littoralis with its yellowish tube & white flrs growing almost among the shells, & in a little grassy meadow Ipomea Sagittaefolia ~~with~~ & beautiful & dew-spangled ~~flrs~~ was there to greet me, but my choicest welcome was from the modest little Sabbatia Stellaris. Studding the Salina grasses with its ~~little~~ little stars, — a plant wh I had not seen since my early childhood & wh I was glad to meet again. The sun was now commencing to blaze — So I retraced my way, & when I reached the "Caboose" I found all the workmen at breakfast — who shouted to me as I came up that they'd been a-waitin' ever so long!

I was self-conscious Enough to say to myself that I had taken a draught of something better than their poor coffee, & had been eating better food than their Bacon & Hominy, but I did not dare tell them this lest they should think me incapable of treating my bilious remittent case — so I wisely held my peace & refrained from exciting my old friend Montezuma to them — that "Hero" not the humblest flr that blows, — but don't bring thoughts too deep for tears"! — So I went at my egg & coffee with a push — Thereby feeling greatly refreshed.

P.S. I don't write this [illegible] — for the future of making you for the write — it will distress me more if I shd worry you.

J. H. M.

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GEORGE ENGELMANN PAPERS

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Blue Mon Co
20. Aug 93
Rec'd Aug 26
Ans Sept 16

Dear Mr Engelmann —

By my long delay in answering your kind letter of last month especially the delightful one — so full of information too as to your own matters, — I have made but a poor return for your continued courtesy & kindness!

Sickness has been in my own House & badly disabled me, & I was quite unable to write briefly only to acknowledge them receipt as well as the copy of "Transactions" you kindly sent me — which by the by I've read (some portions only) with much interest.

As regards the sending of the G. leaves with fruit &c you fill & no letter accompanying hopefully there was a letter of "Malin" enclosed but really I had but little time & I knew I could clear the

Having from time to time sent my aunt Mrs Thurston a few specimens of N. Am. plants which she has been collecting for me, I write to ask if you can tell me whether she is still living at the above address, & if not whether you can tell me anything of her present address. Yours truly

GEORGE ENGELMANN

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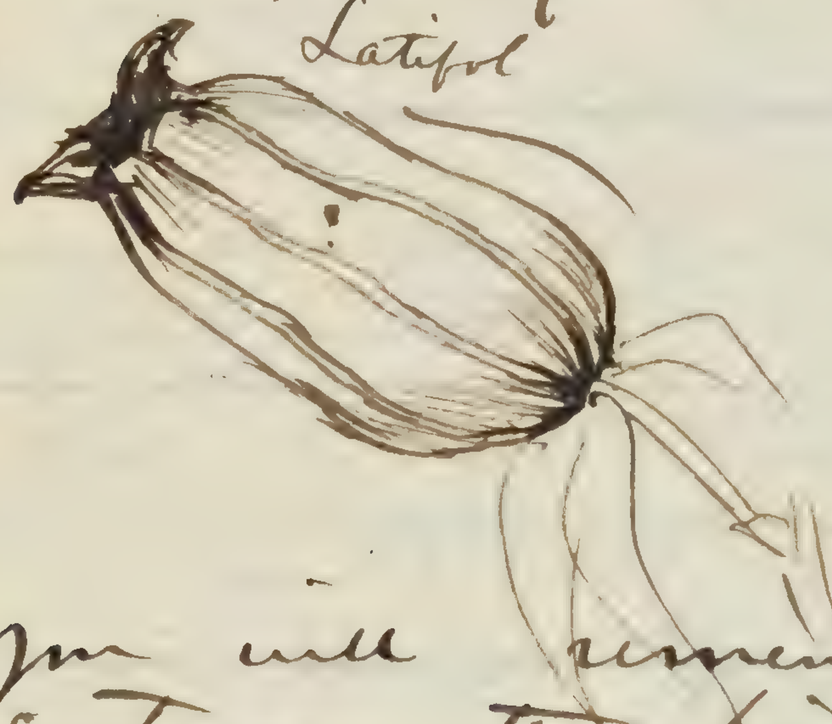
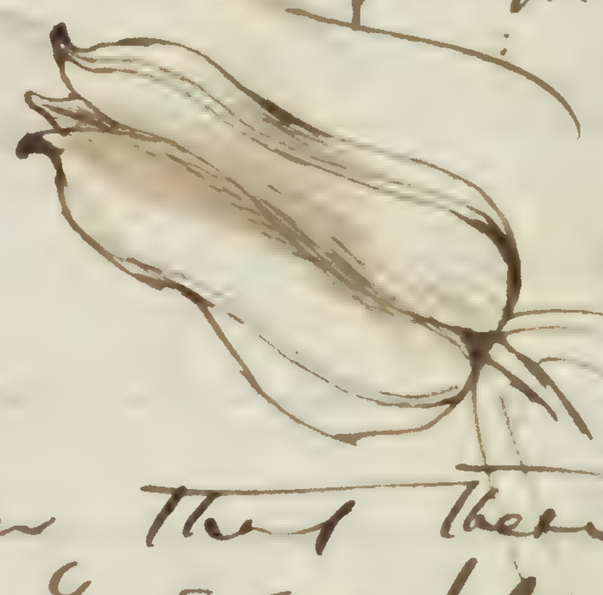
mystery. At in a day or two! As
I examined this fruit before sending it of-
-served that the secondary dissepiments
seemed Complete but as regards the
Capsules "opening currently" I can't
say I see it. I have (cert some
I do not find that "they open principally
then the false dissepts" any more than others.
me one a capsule of Y. latifol. No 1
(angustifol) (at the primary dissepts
the 3 capsels widen, & separate from each
other partially, & there
gape at the tips & at the
secondary dissepiments, through wh
openings the seed may be shaken.
And does not the same hold good
with the Pamplelin capsules & all others of this
These differ only in being more con-
-stricted at the apex but so far as I
can see they open alike —





You will remember that these capsules
sent are the first I ever plucked
from the plant myself — the seed
here never having blossomed a set fruit —
Therefore I did not dare to com-
-hance! The seed I sent you I came
you will remember from my father
at Ft Morton & from my friends

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or I am sick. I what that although 23a
I like many these plants they are really
so far former than I have
been able to work them but little.
I look on that among the mature
fruits of M. aboriol at Dansville
I found the many last a "pulp
cater" — since then I have read
by a negro some form a fair heads
crammed with fruit — but too young,
I have seen not one since nor
the "seed eaters" either. My patient
has promised to bring others still more
mature than I shall examine carefully
& shall keep the larva until their
transformation occurs. I am no
Darwinist (God forbid!), & his never
read his book; this time but several
times & I think him an immeasurable
& must unsatisfactory writer but I
had to allude to him in that con-
-nection as it seemed in accordance
with the craziness of the age! —
I have many leaves from Dansf.
showing the effects. I shall scrape
some off & look. The planter just
about me but show it. Shall I
visit Dansf. again I shall continue
my explorations in another direction
& may get something new yet as to
Y. F. — but I gave my sick man
Sweet Waterloo & Queen of Quince Sulph
that he record to quickly & may re-
-sent to me again! 2d visit this.

this year

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2? The next time I shall have to nibble at him with tiny doses as they do in the cities, & so get him well by almost Express! You ask why shd I Expect to find the old fruit (Anona) y.y.f.? 1st because fit blooms in OC as it always (!) does with us we might Expect to see fit wh possibly had survived the Winter, & 2d because I have occasionally seen the fruit y.y. all months afterwards wh had dried on the Scape. In these Cases the fruit seemed to have been arrested in its growth — but I am not sure. But hopeful are we to be almost sure to get the drug wh at least we possess one an idea of the Time y. colocynth bulby a dry! I say nothing as to ♀ observations as to the ♂ — seeds &c wh interest me much — only that in Examining my last batch of y.al wh I bought in container no "bulk-eaters" I have noticed the same speck a Mayed shd in the most dependent portion in several "bananas" but altho' they led to the seed there was no larva, & the one or two seeds uneaten

Seed enclosed are Y. (Salford) Analysis same sp. wt

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all the dried & very yellow. I don't think the egg had hatched, for there was no mark of exit — wh is a clean cut hole in the pulpy cohesules as you may have seen last Y. Possibly the maimpa wd have revived the egg — but then I am no mancapist !! I trust that Berlin man will get yr notes " & Thereby one a ton new wrinkles " — Many flowers ! (Moon-shine !!) I enclose envel of A Sang ✕ being the second crop from my box plant — the first as I told you having been sent to Light the heart of that very kind (cunning) & courteous Comm-bus Mr Canby. I observed insects on the flrs but no fruit. Observed therefore in 3 yrs — & in the 3 diff plants no variation, nor any under cultivation! Looked in diff flrs among many plants of a Tab but now there found. Did you ever see the leaves of Agave. Va beautifully marbled with deep purple spots? Saw this a few days since on a little tongue of backish land running into

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23d The marsh & grassy under a stunted
Live oak, & its neighbors Baccharis
August &c. I enclose maps of
the Timbucto — Atlantic County
(woe is me!) in wh I live. A para-
-dise once! — now ——— ! You will
find many "seaports" abnt Edisto
&c, a colony of them emigrated
here before the war & one bought
the nice place where I at new
Riv (where ~~I~~ I) as "Seaboro'g".
As for the Hunting Gold" you
will find them in the direction of
Bay Pt & St Helena — a great
rendezvous for sinners in the
old days! — but my Hunting Gold
is not an old one only a Mountain
near here. My City is on May
Riv. wh runs into Calebogue &
runs into the Sea. One of these
leaves of Agave was 19 inches in
length — Scapes 6. — 7 ft — all
growing together in a matter mass
In the transactions I found the
continuation of Mr R's Descendes in
Pr. Mus. & am glad that draft is
now cleared. What cold have driven him
up. The cold in Piazza? I feel
My Dr St that this note (written amid
many interruptions) is a poor return
for yr two delightful letters but at present
I can do no better. Hope to send
you M.S. soon yet! Yr true friend Asa

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P.S. The enclosed I found on Dauphinia beach growing in shells & corals &c under saline shrubs — Bacchanis &c — Bluffton SC 25

To Dr Engelmann, Rec'd Aug 29' Ans Sept 16 — Key Biscayne & Indian R. — Mosquitoes.

My dear Sir

I sent you a letter yesterday & by return mail (or mule) received your last of date 15 Aug. — They passed each other as you anticipated they would — or rather they rested to getter in the little pine-land PO for a while & of letters can embrace, inoculate or communicate with each other — Doubtless ours did! And now to business! — So the long lost or rather the never discovered has at last turned up in the shape of a dryish & small Capsule! Very good, & how is it my dear Sir, that you fail to compliment me on my "sagacity" when long ago when I saw the first dry flower stalks of Y. flaccida as "Linden plants" I suggested a doubt whether heavy pulpy fruit could be borne on these tall scapes so different from those of Y. aloifol. — and still later

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2 of 3

if I mistake not in anticipating some-
-thing of the sort. Clearly then I
must blow my own trumpet, for
"Didn't I say so"? ! Well! it
is astonishing that such masters
as E.H. Nuttall & Co. shd commit
such an error! Why I shall
have to doubt you next!
But are you sure that this dry
Calculi (for such it seems!) is in-
-deed from a Stenocereus plant? — do
you know I'm disposed to doubt it!
I wd not have been surprised to
find it — by drift — from the pulpy
"tunas" of C. aloifolia but hardly
a thing like this! — Something
more like Cleistocactus wendlandii
I observed near. The fruit of X. g. it
seems to me ought to be much
larger — judging from the size of
that plant & also of Y. aloifolia
with its large pendulous fruit.
But this sort of talk is worse
than useless as we have to deal
only with Natures facts. Let
me however thank you at once
for your courtesy in thinking of
me & writing of the discovery.
It interests me more than
even in spite of the doubt!

Please keep me informed of further
developments from Washington as to its being erect or pendulous. Do
you know whether there are plants
in that garden of Y. filamentosa
& whether they bloomed & set fruit
& at the same time with this so
called Y. gloriosa! My Y. f — you
remember wh was but a few yds
from No 2 & 3 & wh bloomed as I
did & afterwards in the summer
(perhaps at the same time) did not
set fruit altho' mother was abun-
dant & did there work only too well
on the latter. I shall take care
to send you a good plant of No 4
(Latifolia) & also ~~of~~ a fine one (in
planting) of No 1 (angustifol)
also Laevigata (2) & Rheeata (3)
You say you received a 2d package
of Yuccas No 4 seeds, but
you say nothing of the green
capsules mentioned as paper of No
3* (Rheeata) & leaves — The
only plant of ~~of~~ wh has fruited
about me this summer! No! This
was the first time you wrote me
of your hybrid "laevigata" with
its "brown purple young fruit."
That reminds me of the almost
mature fruit of No 2 (laevigata)

I will send you seeds & plants this fall

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23-Sept I sent you last summer from H-H-S — three were flushed with pink & purple in the same way but I've never seen the flrs similarly affected. By Tuesday's mail I'll send you young plants of Y. alopex & Y. floriosa. The former from three sizes (being all alike & growing separately under an oak with no larger a old trunks of Y. al near) — I'm certain all sprang from seed dropped from the branches by birds (crows must like it); you will find them all tuberous clustered — almost like Dahlias, & rather like our "red-white potatoes" both as to colour & shape somewhat. I suppose them to be about 4 yrs old — whether this tuberous condition continues with the old plants I cannot say. I'm inclined to think not, but I shall satisfy myself with a hoe, & you too. The young leaves are beautifully suffused & serrated as is the case with those from old plants. I shall send also young plants (but not from the seed) of Y. floriosa. The larger or parent plant which has no trunk & only a few leaves — decayed & died down last year — I think — another

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GEORGE ENGELMANN PAPERS

equally as stout shoots at a little distance ∧ these wh I send are runners or suckers from the subterr-n stem. Whether such plants although young in leaf wd shew the same peculiarities as young plants growing from seed — is a question, but at any rate the edges of the leaves as you will see are serrate (?) like those of Y. aloides, tho' in not so marked a manner!!! I send the original root or underground stem — wh I doubt not came from a seed, — it may answer yr questions better than I can. In its present condition with its lateral stems just about turning upwards it reminds me of №1 — 2 ∧ 3 ∧ 4 so far as I have examined them. (I mean the "roots") These young plants I send have been inspected as you desire, — all of Y. floridana will be marked with a white string (but some of them without it) and diagram the rest ungrandced will be Y. al.

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25-C)

To me the forms of Y. al & Y. s
so far from being "identical" are
very diff[illegible] — yet they are alike
in the serratures. Y. al
shows its rigidity of leaf even
at this tender age" and Y. s.
its more flaccid & softer
leaves — also its paler green.
Am I a "bar" that I shall
eat the milk [illegible] of Y. al?
I still say "Exact & accurate"
often another perusal! Does
not Homer nod at times?
— and besides your lights!
— with such light as is af-
-forded you! I trust you'll
not give my Acrostics up
yet — at least I reserve
mention & record that 3
diff[illegible] plants shew behaviour
thus with regularity for 3
yrs: — something or other
in the plant world will turn
up" in Van Diemen or
Elsewhere at some time
or other to explain of

always
To spring from the same
Site of me.

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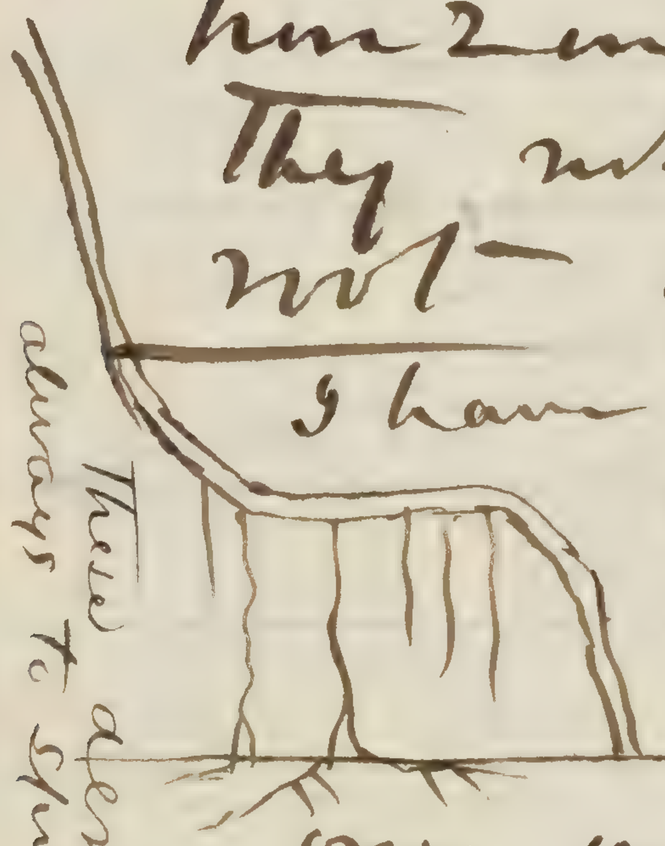
25c

more il who knows?

~~Les Etamines Sont~~

I never sent on any seeds of V. vulp, but can send on some. It does throw out aerial roots sometimes 2 0 feet from the ground, but more generally 3 or 4 ft from the ground — the new plants bending horizontally & in this case they not unfrequently take root — as I saw this morn



I have seen a tree in this way near the ground looking almost fringed beltwise. Saw 6 or one a tree "streamers" 15— 20 ft ~~long~~ from ground I think it is generally in a wet season that they are more apt to do this & in dark & somewhat shaded spots, at least so far as my limited experience in the matter goes. I send rooted & other specs. of above with the leaves of V. vulp. The young vines have smoothish clean bark but the older & larger scale

Does aerial shoots seem to spring from the ends or sides of vine.

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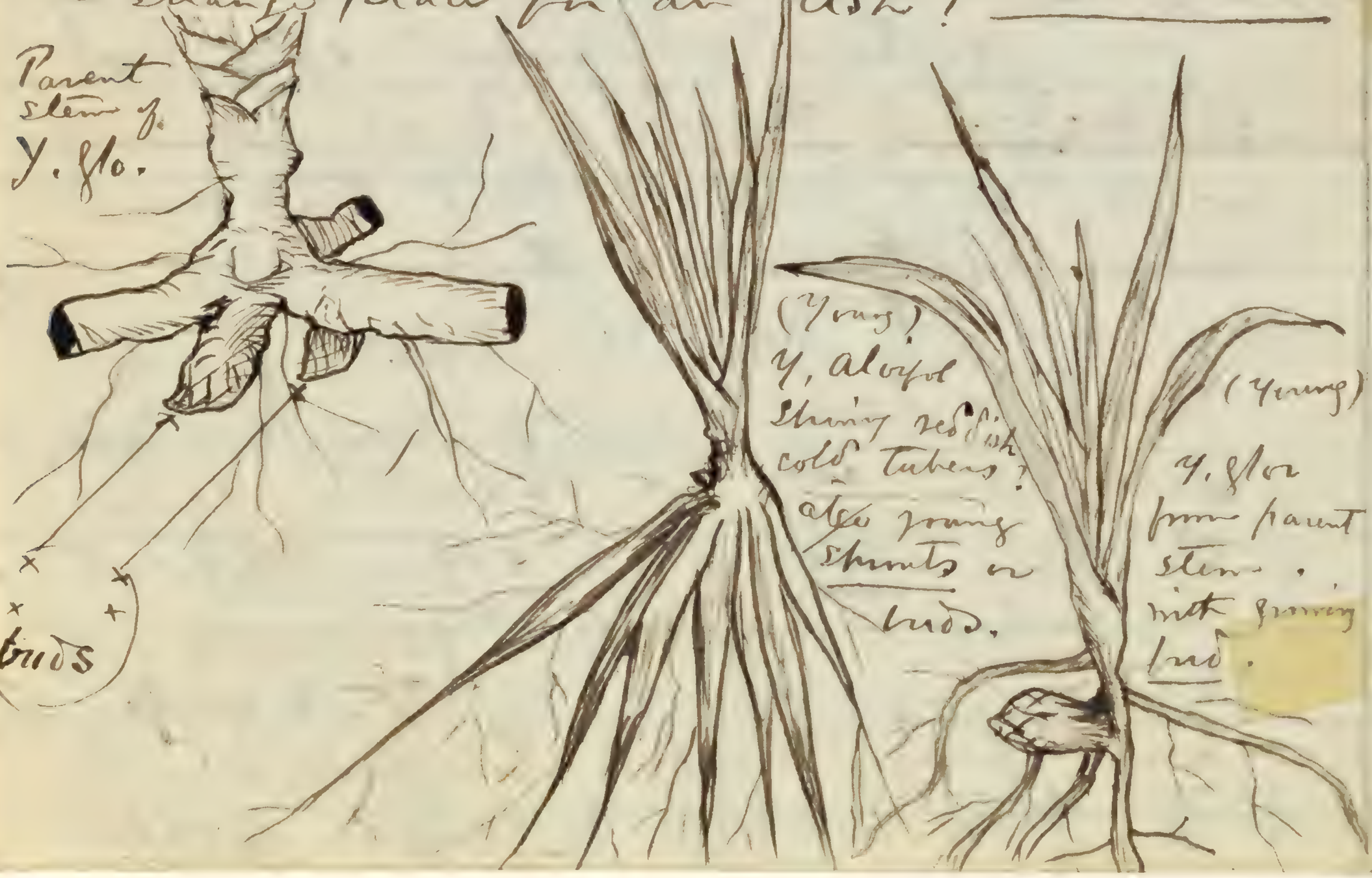
25th

M in large blades as I notice today & previously. Well! I believe this is all I have to say at present in answer to M's query: will send also with blades Quercus Pumila (Mchx & Ell) with fruit (from dry hill land), not over 1–2 ft high. Kyling & Palmer

24. Aug.

J. H. Blanchard

There are no ashes (Fax) in — and about neighborhood & I am not familiar with the tree — tho' I have seen them & some in the River swamps. I send branches of what seems one, — with leaves, & apparently the flowers are distorted in some way — or then smutt arrested by the sting of insects &c or what? At least I can't make out fruit, & I know the fruit of the ash, — please look at it. I send bark also. The tree I found growing on a rich bluff hunting Catalogue Sound with Pinus flab. & C. Porcina & is near, — rather a strange place for an ash!


Parent stem of Y. flo.
buds
(Young) Y. aloifol shiny red fish cold tubers? also young shoots or buds.
(young) Y. flor from parent stem. with growing bud.

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GEORGE ENGELMANN

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GEORGE ENGELMANN PAPERS
PAPERS

X marked X. Baltimore, Md
1. Sept '73 24

To
Dr. Engelmann

Rec'd Sept 5th
Ans Sept 16

My dear Sir

I dare say you
will wonder why I
have not sent you
the seeds of the
Yucca filamentosa
before this — but
I have been
waiting for the
capsules to ripen
— but from this
fact I have made
a discovery
which I think
will interest you
— I have
found that
the capsules
of the
Yucca filamentosa
are stingless
with their
capsules
!! seems!! —

however This much smaller (but this may be immature or an inferior spec) also resembles that of No 2 (laevigata) both as to shape, roughness & colour. Or may it be a form of your "Yucca strictipetala = Punk") of the Mexicans? You can decide - I will say that it reminds me most of No 2 - (laevigata). The package containing also the Evansianum which I send - I hope (from what the lady says that the Head Gardener of Chevetan was set upon the track with my queen leaf ~~Not~~ as a guide — the Evansianum was the meant to be sent seems to it (& it being Yucca potteriana!!) but she not being satisfied sent M. her son who did much better with the above result!

I enclose also actual capsules & seeds (you will find many good ones among the latter) of No 3 ("bracteata") from the same plant from which the green capsules were sent on the other day. (i.e. the Dry.) Then lastly did not set myself

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but I discover how I came to a darker & he brought me these. When I saw 24a
this plant — it was so ragged & leaves so small, with ~~[illegible]~~ ~~[illegible]~~ ~~[illegible]~~ stems not especially hairier I hesitated a little — but I have no doubt it is "hacleata". Please Examine seed under the microscope.

I sent letter & packages Y. al on Tuesday last & Y. flo yesterday which ^ wh I trust you received. I think it likely that if I can procure young plants of 3 — 4 yrs of all the species wh had grown from seed — I will find the same peculiarity of the almost tuberous roots! From the larger one of Y. al sent & even the deepest ones you will see the true stem or stems just starting.

. Bulbils as soon as this enlarges the small tuberous roots die, & nothing is left but the subterr: stem or stems. I believe all y. Y. filamentosa 1. 2. 3. & 4. will act in the same way & Y. flaccida also — but it is only by raising them from seed that we can be certain.

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2th I have examined the underground stems of 2 & 3 Y. alopol — as well as those of the tubers of course, only the horizontal stems — one, two or three. Evidently the same with Y. flexicosa — altho' that specimen of small Y. f — sent me long since was curious — but I have seen nothing like it since. As regards the "roots" of 1. 2. 3 & 4. I see no very special diff — between, they all run off laterally like Y. al & Y. f. 1, but the "tap" of No 1 seems to run down perpendicularly very deep; — Some one ought to examine & this depend upon age: I have good rooted specimens of them all now placed in a box (specially No 4) wh I shall send on when the weather gets better.

I send this Y. sp. sent from Canon Florida also.

As Y. f. 10. thought fit to bear fruit in Wash. I hope that the same might occur among the great No of them plants on the lawn at the "Long agone Planter" — from which you may remember I once wrote you. when in the middle country, I have therefore taken the liberty of worrying the courteous young planter & asking him to water them & send fruit if it fortunately should be impressed! —

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GEORGE ENGELMANN HERBARIUM BOOKS

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Sabbatia Elliottii Pursh (Ell) 24 a

[Hibis grandiflora
Cal. & seeds &c from
in a box — from near
Braddock's Pt Hfd See
maps! & trees with
limit)

Cuscuta arv. (letter)
Nicotk Cyperus.
Hyper. Sarothr —
Habenaria Replens?
root not creeping — flrs
green — Very fragrant.
Bacchais. August

I believe I sent
you most of these things
before — but I
dare say you can
make use of them.

Yours

The Haircap sent 24th
contains 2 habitats —
Thuja Occidentalis (2 leaves & cap)
Yucca. Chrysanthemis
" (bracteata (cap)
{seed} & Canna F. &
Cham. Hystrix)
Canna Flac. fls (small)
Magnol. Tripet (leaf & flower)
Juncea cystorus —
Centaurella Ten ?
Ulmularia (Mera (genus) ?
Olyra V a —
Rostellaria V s (Hybris V s)
Coreopsis Stellata? Sen ?
Crotonopsis Ellip ? & ell.
Convolv. Humistrat
Kalmia Hirsut
Sagaret. Mitx —
Polygal. Polygam
Pinus Australis ("Mons
Tom Conne again")

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Rec'd 26
Ans — 7

Portmark Sept 23

26

Bluffton SC
22 Sep'73

My dr Sir I trust you will soon receive the package & letter from Chester containing Capsules & seeds of yr 6— No 4 — the most vigorous plants I have yet seen, I think the size of the Capsules quite surprising for — the season also seemingly diff. from the Dandelion plants. There is however no doubt of their being the Dann no 4!

Before I left the city — had planning to map by a certain number including R. cath Chapel I was struck by the profusion of plants in front, & among them in a handsome vase what

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shewed I see but Y. Recurv-
-folia? — certainly this must have
— taken among many beautiful
things there! The rubber leaves
were erect, — the middle grace-
-fully bending, — the lower exqui-
-sitely recurved! Nothing more
~~more~~ wonderfully symmetrical
could be imagined. The bloom
was just over, the flowers
catching upon the leaves — the
stalks some 3 ft. or three stems.
Evidently nothing but a delic-
-ate & tender Y. flaccida, but
the question is whether such
a beauty can be found on
the sea-beach! This looked
as if the sandhills had had
hold of it, — I dare say
this is the same that we
refer to as Y. R. No print
on the scape — same with
with the Jardin's East Yucca
Yucca I wrote you about.
The leaves of this Y. R were

much more narrow than
Y. flor. ∧ q comes nearer flaccid.
Never saw a finer plant
in my life! I send you
by this mail a packcage
containing "notes" & specimens
of Y. f. 1. 2. & 4 — I trust
they will reach you in good
condition; — next mail
I will send No 3 (several)
∧ a few more of Y. filifera,
also a young plant of what?
Y. al? Y. recurv? — or Y.
filamentosa? Leave uncertain —
almost. Filifera, not serrated
I believe, but growing under
the same rule from which
I took the young plants
of Y. ~~flac~~ Aboipot — some of
which are still quite near
it. Leave gracefully recurved.
Thinking that you are
anxious to get specimens
from as wide a range
as possible I write my

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268

Received a L[ette]r [illegible] in
Albany Ga (L[ette]r B. M-p.
Cromwell) asking him to
send me any shells you & he about
him & for I remembered meeting
him during the War when
[redacted] he followed the fortunes
of either Stonewall or Jubal
Early in Va. I believe he
made time when there to
look a little after things bot-
-anical. I wondered I had
not thought of him before.
He very obligingly wrote me &
sent a handful of good Capsules &
leaves & I think U. laevigata
(No 2). He says "The fls, stalks
& the stem from wh. these were taken
ranged from six to 10 ft in height, &
the panicle of the largest was over
4 ft long". Then I will send
another time or by next mail
meantime

Yours

P.S.—
Had any moss
weather lately?— coming from
Chester on 19th I was caught
near sun-down in a gale, blew
great guns that night!— not settled yet.

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GEORGE ENGELMANN PAPERS

Rec'd Nov 8 11
Ans Dec 7 11

Carl Camen —! (Verbasco!)

Engelmann

Bluffton, IO Before 1 Nov 11 XII 11
1. Nov 73 Vitis 27

My Dear — Yr (a)t of 29 Oc

I found here upon my return from Chelan & I am reminded that yr — of Oc 7 is still unanswered! And yet how much obliged for it! If I have knitted a eyebrow (is there such a word!) from I shall endeavor to allay the excitement by telling you all I know of the oak wh I sent you as Falcata — 3 kinds. But I have little to tell you! It is the only tree of the kind I ever saw, & I found it growing in a neighbor's yard in very sandy soil (as all of this flow is — being somewhat elevated, & thoroughly drained by very wide & deep "coves" as we call them.) its limbs touching perhaps both Falcata & Catesbæi & Vicens. I suppose it maybe about 40 feet high, its bark resembling Falcata but darker I think, & the leaves or channels not so deep, — when cutting through the bark the inner portion is red like Catesbæi (our "Scrub oak") whereas Falcata is yellowish if I mistake not. The acorn is generally larger than that of Falcata, (but I find the same order to differ much in this respect & also as to the shape of leaf) & Even on this tree I find a difference in the size of the fruit. Like Falcata the acorn is "fuzzy" or tomentose wh easily rubs off, & also like the latter

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marked & darker lines (Vertical) . I have been looking at this tree for 2 summers past, & always supposed it to be Elliotts Tri-lobed (somewhat an abnormal one), yet I was always struck with a certain something peculiar to that tree alone, differing from the others especially in its pale-green colour. &c. If I had taken the trouble to look at the other Trilobas I must at once have seen the absence of the tomentum on the under-surface of leaves of this. But I am indolent & hen-eyed as Mrs Carlyle says, & stupid as a turtle! The leaves certainly do bear some resemblance to aquatica in shape & sometimes, — but the size! — ! & the bark, & the fruit, & the whole demeanour & growth of the tree carry you far from aquatica & magnify among the long petioled — sinuate & dentate leaved oaks — such as Tinctoria, Catesbaei, Falcata &c. I see aquatica every day of my life — it dirt belong there. As for Walter's sinuata it may be that but I haven't his work & if I had it might not help me as I have but little Latin & less Greek & am rusty in both. However, monk Latin & dog Latin & Bot Latin taken kindly, mixed together, — "trabbel on road" as the donkey says — so I dare say I might spell it out. As for Cinerea! don't you dream of placing it there — saw it yesterday in the pinelands (australis) ~~15th~~ 8 miles from here when returning from Chester.

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nothing at all like it. Of this last I sent
certain one across — Saw out one of the
leaves I plucked sometime I've lost them
while coming. Shd liked to have sent it
along with package I sent with this
containing fresh supply of Sinuata
Falcata, Caleabaei — the two (?) Pri
— lobata, & Aquatica. The large across &
"cuts" belong to Sinuata, — smaller Falcata.
— in refixing the package I may have
mingled some of the across of both, but
I believe not. Accordingly to my (!) way
of thinking (being guided by eye-sight —
— brown, & colour &) Laurifolia, Phellos
& Aquatica ought to run together. I wish
not the state entirely if the vals did
not need a thorough overhauling.
It is very curious that so many abortive
fruit shd be found on my transf —
Sinuata and Pumila, but I believe it
to be so & this fact must be right. It
seemed best however to call yr attention
to it & sending many specimens. Whether
Cuneata is or is not an annual
fruiting oak I cannot say, — upon those
examined in the Nursery I could see
no fruit at all — neither large nor
small, — the twigs were however small,
15 feet & 20 ft & less. Will remember to
watch but I seldom pass that spot — what
does Mr R — say? You will see in the
package 2 sheets of Y. filamentosa — probably
No 1 & No 2, — probably both No 2! And

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2/15

when from? when else but from the town!
a from the ground when once stood the
town founded by old Pury of Neufchatel,
— Purrysburg, on the Sav. R — settled by a
colony of Swiss! — Swiss French & Germans
who still stick to the neighborhood, tho' their
great town has long since gone the ways of
all flesh — not a house remaining! Lately
having been compelled to sleep o'nights at
Hardeeville on S.C.R.R. in attendance on a
case of typhoid fever (our hospitality convalescent?)
I was invited by a gentleman to take a
ride to said town on Sav. R. as he had a
wonderful Indian mound to show me on a
rather lofty an edge of it, the third of it
having been washed away into the river.
From said mound he had taken all kinds
of bones & especially the under jaw of some
Indian Goliath, — pottery, arrow-heads & I know
not what else! How lofty was I to accompany
him & for though I've been seeing Dick Peters
for many a yr within 3 miles of Said Place
I had never yet visited the wondrous
Town of Purrysburg Neufchatel. A delicious
ride though an autumn pine-land all
purple & green & indigo-ey with Galaxias &
Sabbatia (Salina N.C.) Bidens &c, — the
flashy "Falls" crimson with the berries of
the beautiful Ilex Myrtifolia! "Here is old
Purrysburg" said my friend — "it had been tottering
for many a day, but Sherman came along
& gave it a kick, & now Purrysburg is no more"!
I could see only the old tombs around, where
once stood a church, — a few shrubs, & a 3
huge trees of Sugar berry (Celtis) — and

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ENGELMANN PAPERS
GEORGE E
MISSOURI

(5) Rec Nov 8 1873 Nov. 1, 73 272a

a hedge or wh grew for some 50 yds a regular line of plants of our ancient friend Y. filamentosa! — Evidently planted out in Exact order, - maybe by ole Penn himself, a Scion of his Frenchmen or Dutchmen a full acon ago! A goodly sight doubtless when in full bloom, regaling the eyes, ∧ at night the nostrils too of our early colonists ∧ the Savannah! Evidently there were old plants, but they had been burned last Y. ∧ were almost shrubby, but now throwing out long ∧ vigorous leaves. Many of them measured no 2 ∧ their length, shaped ∧ shine, but they were not smooth, — those of no 1 being smooth ∧ blunter. But they maybe all one! I suspect yucca is a Chameleon like personage changing into many shapes ∧ forms according to soil ∧ cultivation! Here however on Salt water (. 2. 3 ∧ 4 stand always the same. I think it not unlikely that these things were cultivated for use ~~and~~ not for beauty! as the colonists had an eye ~~for these things~~ for the utility ∧ especially such as these who chiefly attempted silk raising. Their Mulberry trees however are all gone, but the brick foundations of their factory wherein the worms were hatched ∧ cared for (e still stand. But to the Tree! ∧ that moved from wh I hoped to get a Brevis Stellog! remains of Mound builders, ∧ as early relics as can be, being dug from the ruins of Troy ∧ the Sycamore of Priam itself! That Germania is on fire in Troy! why not I in Tarrytown? — why not? "I am for" Ucalegon and it"!!! So to the Tree let us go! wh I trust

(6) will not prevent my ardor by its having engulphed the bons & ornaments of our aborigines in its tumid waves! Alas! it was even so! The inner core & heart of the mound was gone & one huge live oak standing on its ~~the top of the~~ rim ~~[illegible]~~ was already half hurled into the river. This tree was a seedling sprouted upon the mound! My friend triumphantly shewed me a bone, — a hog's I believe. How old is that said he — "Taint" a human" said I — it has never been buried! "What? That's not an Indian bone? — if that aint an Indians bone" &c &c &c I dont know what he wasnt going to do. My friend eyed me suspiciously & respectfully as if there was no antiquarian enthusiasm in me. However I commenced examining the face of the mound & soon found traces of the red man but perhaps none of the original builders of the mound who preceded the Savages we met here. There were on a two shelves composed of oysters from the coast, mussels from River with coals, & charred wood, & numerous fragments of Pottery of various devices intermingled with the bones of animals split longitudinally. (That's the talk now aint it —? man of mens one &c —, marrow, — cave bear, & &c &c &c vogue ad nauseam!!) Some of these bones wh I picked out from the charred wood & pottery & shells crumbled in my fingers but were all neatly split longitudinally. Said my friend coming up "That's human anyhow!" no! it's a bear or a deers bone, or a "painters" statue

(7)

(7) don't you see 'its' split length ways"? "What's that for?" said he, — said I looking sagacious, "marrow"! ("the flint age fellows loved marrow to eat with their oysters, — they had no butter, hence don't you see they cracked their bones length ways". "Human" said he, "Indians buried their dead here, — didn't do any eating here, — marrow the devil! — Human"! What was to be done with such a man who didn't care to listen to one word about Denmark, — or shell heaps, or mound builders, — or flints, or lacustrine dwellings, or marrow?! I doubt not if I could have gotten him when the centre of the mound had caved many things might have been found illustrating the lives (or death) of the first builders, — all I got was fragments of pottery of curious patterns & a few bones. When in Chester I saw in a book store a handsomely gotten up book on the antiquities of the Southern Indians — Shreadly & —, illustrated with very excellent cuts & engravings by C. C. Jones of Ga. now practising law in N.Y. I well remember him as a boy in the S. C. College, tho' I hardly knew him being not in the same class. He has spent & examined many of those same mounds on the Savannah higher up near Augusta, & gives much information with the enthusiasm of a scholar & antiquarian. The book is costly & but should be in every Pub. Library. Gotten up by the Appletons. N.Y. The brother of this gentleman is Dr Jos. Jones of N.O. whose researches in Yellow fever & medical chemistry are making him known.

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The river had fallen low — giving me a nice little beach wh was strewn with the long black drupes of Nyssa Uniflora, with here & there the peculiar acorn of Q Lyrata (overcup oak) wh I had never seen before. — Doubtless in the swamp immediately across the river wh was now dry & ~~the~~ seemed like a forest primeval with a splendid growth of oaks (abhorrently the Chestnut & White Oaks) — there were concealed many of the French oaks, & I should much liked to have escaped this Gordian into those delicious solitudes when seemingly no featherless biped (the villain!) had ever ventured before! But this was a vain thought — the setting Sun warnings to turn homeward. I send you one of these acorns wh I dare say you are familiar with. And thus ended my Expedition Vt to the old settlement of Pungoteague! In old days the standing force against these people was that they fed on Sturgeon & Mulberries, & in those seasons were terribly saucy! as they then waxed fat & kicked, — but at other times if you met one in the road it was — "Please God Sir wont you give me a chew of Tobacco?!" — However they've come well end, as from this stock sprang our Confed gal Hardee (Hardee's Tactics wh that noble sailor Haatsteine who brought Kane back from Polar nights & presented the Resolute to the Queen. I knew him well — a splendid fellow! — It broke his heart to resign his Commission & turn Rebel & Davis never trusted him. He died in Germany 2 years ago.

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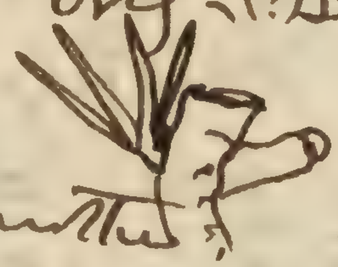
(9) Of course it was wrong for me to speak of the ~~stem~~ "root" of No 1 running down — it was running upward to  then light from the dish subterranean stem, but how did the latter get down so dish? that must have pushed downward through the soft light soil. My idea of "the light sand carries the plants so that the shoots come up through" will do. There's no drifting here at all, or not much to speak of — do you think we live on a Sea-beach? The only way to get at all of these plants is to watch their growth from the Seed — it is useless to go into a frenzy for batch for young Seedlings — doubtless out of 50 plants clustered in a field all spring from ~~a~~ single seedling planted ages ago. The hoe & plough have only separated the shoots & runners down good by making a multiplying the plants. It is not unlikely that No 1 as a Seedling in this field — will dive deep to get out of the way of the hoe — "struggle for Existence" you know, — go deep, — get out of the way of your enemy the hoe! Why not give Darwin a chance! As for the ~~D~~ young Seedlings of Floridia sent in the spring, these I find almost under my piazza — & under an oak when I plant the seed in my parlour last summer ('72). The stems of larger growth with serrated edges & also the one received & tendrils Hispida I found under a *2. Lamifolia (2. Vines around)

* 2. is generally from seed. Examine with a lens & dissection again. — I have a thick [illegible]

(10) Rec Nov 8 1873

Thus last I still think are 3-4 yrs old - it will take that long I think to make such stiff & serrated leaves. The numberless ♀ ♂ from my '72 Summer peeling are still growing & shall be looked after in the Spring & Summer. I certainly sent you some good seeds of No 1, did you not plant them? if so do they not run down deep as they do in "Nancy Co. field"? Had I not better plant No 1 seeds at once & not wait for Spring? — Please say — I shall try a few more. I shall send a good plant of No 1 with a solid crisp (?) stem with a young shoot from side  now growing daily in a box — also another still larger which you will have next Mch if I am still in the flesh at that period — for I must have a No 1 (my favourite) Even in that last if ice & snow! Well! I'll run out & run down, & my feet cold as ice, & the clock says go to bed! I shall happy self for this unquestionable letter by sending you in future Post. cards, or else I shall write for Laconisms, for is not brevity the soul of wit? And so to your kindness & myself for this infliction and — Thy servant!

I enclose Aster Paludosus —
Eup. Pinnati? ? & —
Hyper. Ambig? never saw a last before!

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Rec'd Nov 18th
ans Dec 7
To L. H. Engelmann
Myself.

Bluffton Ind
13 Nov '73

My dear Friend. That was a nicely laden argosy of yrs wh sailed from St. L. 4 nov. & was safely moored here a night or two ago! It was delightful to get these photographs. & y. glorious growing in the New air — but especially glad was I to see at last the fruit of that elusive phantom for yrs past wh now for the last 2 or 3 yrs. I had been chasing along many a beach & sandy shore! Well! we hunted it down at last — Even though it was not our fortune to find it where it ought to have been found — in its native habitat on the Carolina & Georgia sea-coast! I don't believe Elliott ever saw it! & I was going to say — nor any body else until you got hold of it in the gardens at Washington! Better late than never! — and now stamped & photographed for all time! Enough said! The clusters of y. aloifolia and y. gloriosa are generally much larger & compacter (the fruit generally touching) than that represented in the photograph, — as fancy & for having seen the Dame or you may well know!!

y. aloifolia — I may be wrong but I think the leaves are not quite so broad as in the Polycarpa — finer & longer & more slender, & the fruit-clusters smaller & more compact.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

After a trip to Tuscaloosa I sent you a letter somewhat descriptive thereof (wh already seems very forlick to me) & at the same time sent you a package of cards (& wh I trust you recd safely. If you did not I will send more of Sinuata (!). And now to Pumila & Q. Cinerea. I am glad to find it's annual fruiting endorsed by so competent an observer as Mr Ravenel, but I was satisfied as to the biennicality (!) of Q. Cinerea before I got his letter - having discovered a scarcely fruiting tree of the same not far from my house on "the bluff" - a specimen of wh with accompanying post-card I sent you a few days ago. Pumila is the only one I know certainly as the dwarf - creeping - pine-barren oak; it's common about me here & I observed it also frequently in (clay) along the road through the pine-lands about Hardeeville on the R. R. In such situations the leaves are generally large like the largest I sent you - & the same Cinereous hue with the white tomentum or pubescence underneath. It certainly resembles (at least the larger leaved specimens) Q. Cinerea more than any other oak. Q. Phellos don't grow about me here but I have often seen it about the Newport swamps, - it is generally a ragged - miserable looking tree & I know certainly of no running - pine-barren form of it. Not just here at anyrate. Yesterday I went into the pine-land for the special purpose of overhauling Pumila & for the distance of a full mile Examined as carefully

as I ced a great many little way sides patches of the same. At first I thought that possibly I had made a great discovery, viz, that there were 2 dwarfs in the pine-land, — one the genuine Pumila — of a cinereous hue & always tomentose underneath with generally larger & at least wider leaves, — and another with much narrower leaves of a much brighter green (not dull & cinereous) & not tomentose underneath except in the younger leaves — they having some pubescence. I thought of Walter's diagnosis as given by you & I well have changed them thus —

2. humilis (my first. ~~Pumila~~ pumila!) fol. lanceol. in- -teg. — subtus tomentos.

2. pumila (my second — humilis, if you please) fol. lanceol. integ. glab. subtus glab.

There may have been a kind of "bloom" (glaucis?) on the under surface, but if so it had worn off, — does glaucus in the latin mean gray — a bluish gray or white with "bloom", a what?). This last, (— my second as above) I thought it not unlikely to be a dwarf form of that splendid tree Laurifolia — the leaves resembling it & being smooth above & below, (you will say why not Phellos? — because I was reminded more of the former!) However after continued Examinations & Explorations I became doubtful — the characters not seeming to hold in all cases & to run into each other. Yet I maybe on the right track. Only once yesterday did I find an acorn on the narrow leaved kind & then so low down on the branch (tho' in the axil of the leaf),

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that I was not sure whether it was an annual a biannual — but Eventually I was satisfied it was the former. All that I have just said seems a contradiction of what I first stated as to not having seen a running form of Phellos here — when I stated that I had Laurifolia eventually in view wh they call a Var of former, but I feel no certainty about the matter. Please overhaul the Quercus spec. of Pumila (with young acorns) wh I sent you till I see if both kinds are not among them. I think I have dried spec. of both but only one with acorns — if I can lay my hands on them I'll endorse in this & at another time shall send spec. again of both. Please look also the enclosed notes of my numbered specimens (to be sent in a package) of the above & other oaks wh I shall send you. ——————

Nevertheless as you say one thing is established — my Pumila is different from Cinerea! — So that's settled. It is right that I shd remind you that our pine-lands every year or two are devastated by fire, & this barbarous custom has been going on for how long! — Ever since the discovery of the Country I believe & probably also it was practised by the Indians also — so that it is no easy matter to talk about the true growth of a plant, its height &c. Who knows but that the whole character of a shrub may be modified & changed by this continual scorching — or — again let us give Darwin a chance (I love him so!) in this terrific "struggle for Existence" — the "trial by fire" — may make our friend Pumila a little more prolific than originally it was & less arborescent

(5) Zen Nov 18. 1873.

into — (isn't that a tremendous forest!) 28th
an annual !!! The lower the soil — the
worse the conditions — the greater the Motif-
-icacy! Darwin is fascinating & it is
right to give him a chance if I understand
him! But let me try & talk sense,
& now to Myrtifolia. With this oak
specimens of which you have I have never
met save in one place, & that on a
sand ridge in the Pine-lands not more
than a quarter of a mile from my house.
The soil mixed & poor & sandy — supporting
a growth of P. Australis, & as you go down
to the "falls" on each side P. Serotina,
also a thick growth of Andromeda
Nitida & ferruginea, Kalmia hirsuta
& everywhere & there clumps of stunted
& burned Ol. Americ — & the usual
dwarf variety of Q. Virens — be it Imbricaria
or maritima or whatever the "Var" may
be! Of course any quantity of Sabal
Serrulata — & Ilex coriacea & pretty much
all I believe. There are on this ridge
clumps & patches every here & there of
this Q. Myrtifolia but hardly extending
altogether over more than an acre of ground.
In height it is generally from 18 inches
or 2 feet to 8 feet high — & I've never
seen it higher, — Generally 4 — 5 feet high.
I have never seen it "growing among live
oaks" — I mean the large L. vic & I do
not believe it is a variety of Q. aquatica
although the leaves are under tri-lobed

when I have time — & when in mem-
ory all (getting a little as I see it
by sand. — So you see it's
C. Hystrix

on 28th with a tendency that way as is the case with Q. aquatica but the leaves of the latter are thinner, — whereas in this (myrtifol) they are thick — shining × revolute. It seems to fruit but very rarely but the fruit is certainly very much the same as Q. aquatica, — the bark is is smooth & white like the younger live-oaks. The young leaves & shoots are full of a ferruginous tomentum (at that time as one well takes it for an oak). Long ago I sent you such specimens &, if you still have them you will see what I mean. It is nothing like Phellos — far more like aquatica, — but I believe it to be neither tho one or other. I may say en passant that I sent the same to Mr Canby (who begged me to get some things for him) & he thinks takes Q. aquat. is a "var" of that. — but I don't agree with him, as I know Q a well. I'll send you some shoots & also from a few shoots of the same with much narrower leaves — but just the same! I give you all the variations with also the large ground shoot leaves Q Q. I shall send also do do of this pin bar. var. of Q Nigra. I think the larger Q.V when young shows a tendency to the Phellos leaves & under all oaks I believe about me.

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this is all I can do at present to the "solving" of that "problem" of D.C. Candolle — and all I know about it — never said it anywhere else!

I wrote you in my last what I had to say about the only tree of Sinuat (any 3-4ft) I have ever seen — since then I've examined one or two small trees of Q. Aquatica — 15ft high & growing in a shady creek wh has large acorns — whose large & tri-lobed leaves remind me much of those above Sinuata! Still I believe the latter to be an entity diff tree in spite of the great similarity of the leaves. — It on acct of size — (40-50ft high) — the bark wh has not the smoothness of the Aquatica, & also on acct of the acorn wh has not so flattened a cup as in Q. A —. Still I shall send you specimens from these young Q. aquatica for you to note the resemblance wh is certainly remarkable. It may be the same tree but I don't think so — in looking at it I am reminded for once more from its growth &c of the Nicaragua oak like rubra falcata &c &c. I sent you in my last pack. leaves & acorn of my genuine 3 Lobed, Tomentosa underneath. In these few trees

about 2/3 25a of all the seeds from below up-
-wards were markedly 3-lobed, but the
upper tier (1/4) were more dissected like Fal-
-cata. Is this so I must wait till all
3. Lobes? acorn very small. ———

Zostera Mar.a I never saw in my
life — will be sure to look out for the Berlin!. But I
haven't thanked you yet with your
thanks for the beautiful Y. Recurv.
& Y. f. Latifol seedlings! The former
no doubt bears its native air after
a perhaps 40 or 100 yrs wandering
in the Wilderness — than it seems
to drink a quieter air I turned
it Downstairs — inhaling the
sweet South! They have all been carefully
planted & I shall watch the roots of Y. latif
— very curious — When did Y. recurv originally come
from? I sent another Y. f. August (No 2) wh
may do better — have others must larger
for Spring —! I have collected between 4 &
5 lbs of P. Ellwangeriana seed & send now by mail about 3½
lbs. I have attended to this myself in my spare times &
believe the seed to be good, — genuine they are. Will send
balance next week with my 2 lbs 3 oz of Pinckneya seed
(in capsule — all I could get) These I know to be mature &
good, even tho' all not burst — they had been exposed on the
trees to 2 a 3 good frosts & had commenced to burst. Had I
waited any longer I must have lost them all. They had
become brown. Hired a boy to cut down all the branches of
a P. glabra & I now have the cones, but upon examination
of several I find only one or two sound seed to a cone!
Don't think you'll get any of them. These are all I could
see after — so as to do it faithfully — Sarothra, I should have
obtained a great many more of different times, but I could not
leave it to negroes. I send the X for same, — thanks. Actual
expense in money only to present $3.78 — for hire of horses &c and
labour. Don't know what my time & ride to swamp, after P. P. 7 miles
& is worth, or every after in my leisure after P. Ell. I just

make the

C. Hystrix when I have time — Flowers in

Rec March 23 10
Ans April 12

Bluffton, Ohio
18 mch 74

Engelmann

Dear Sir

I write only a
few lines in
haste merely
to say that I
am very sorry
(—for certain
reasons—) that
I cannot
accept your
kind invitation
to visit you
at this
present time.
But my health
is much
improved since
I have been
living in the
country. At
least I have
strength enough
to walk a
mile or two
without much
fatigue. I
have been
so much
occupied with
my garden
that I have
not had time
to read much
else. I
have also
been busy
with my
bees. I
have now
about 30
colonies.
Koch

I am very
glad to
receive
Gray's
Lessons
in Botany
—when
reading
it I
always
feel as
though
I were
in your
company
—I
received
a pamphlet
sent me
by Prof
Asa Gray
—I
suppose
it is
a
reprint
from
some
Journal
—but
I cannot
find
out
where
it
came
from
—
Will
you
please
tell me
in your
next
letter
where
it
was
published
—
I
have
read
it
with
much
interest
—
Prof
Gray
smiles
at
Hermes
as
the
author
of
the
Botany
—
but
I
suppose
he
is
only
joking
—
I
have
not
yet
received
the
Botanical
Gazette
—
but
I
suppose
it
will
be
sent
me
in
due
time

-azza ∧ I think scatter the seeds over the very box when also I had planted M. alnifolia. Natives nevertheless ∧ mature watchers (before you!) are not very often mistaken upon examination of what I (am to be) am M. alnifolia - seed planted in same box long since I find them swollen but not yet germinating but M. florida germinated promptly but a few weeks I think — of them last however there is no chance of any mistake. When writing you of the difference in germs of the two - I well remember that the young plants of M. alnifolia ~~the~~ strong ~~up~~ near my house when the leaves & seeds of M. al were flung during my examination for larvae in 1872 ——— did have the seed either entirely buried or only on the surface of the earth just like M. florida. But as these young plants were growing in among very like oak buds & plants - I concluded when I saw the cast cotyledons with the seed on the lips (in the box) that the ~~age~~ & crowding & shading of the former had dwarfed ∧ twisted & subdued the cotyledons into that condition.

This a pic of Canna. I send in a letter from your large Tray

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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Now I don't believe it & I 30a
think it likely my Y. aloifol
drawing sent you is that of Agave
— the Y. flaccid is all right
with no hesitation of error. I
have 9 of them left & all
growing finely. One other have
three leaves. Of course I am
not yet sure yet but I'm written
until such that I know to be
Y. aloifol germinate! — but I
am almost sure of it! I must
again very humbly ask pardon
for such outlandish cackle!
I enclose others from box with
I take now to be Agave — the
seed or shell still hanging on.
With thanks for
Mr. Conkey's & the very pleasing visit,
Sometime soon we go to the
Grand Canyon" I am
Very truly yours
Geo Thurber

P.S.
Schizandra Lie never seen, nor
Forestiera, — Planera I think I
did see once in a swamp — but
it was winter — can't say. Shall
Ever come across any of them Lie re-
-member M. Grandiflora — not likely
however!

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As regards Canna flaccida — don't think there would be any difficulty whatever in cultivating it. I have some in a box with no attention save keeping it rather moist. If it fails at all out West it will be for lack of the salt water atmosphere as it is only found I believe near the coast. There I sent for I found in black mucky — swampy ground, — surrounded sometimes ~~by~~ further ~~by~~ down timelands with a thick growth of Saw palmetto (Sabal serrulata). I don't see exactly what le Conte means for I had always supposed that the stalks were borne on runners of the stem & are close to the stem in little clusters of 4 — 5. Upon Examining a vine of Vulpina near me which is one abundantly last yr I find a good many bunchlets of "little bunches" or "bird's nests" ~~return with~~ of last yr, upon which grapes may grow — seemingly making very little or no new growth save the very close & small panicles. I enclose them. I have never Examined them to say *, will do so this Summer & send you whatever I can get about me. Many of these vines are forever barren, — staminate I suppose. I shall send you all the bark I can get. Leaves of Lamboliia now turning yellow & brown & just commencing in a few instances to drop. Vitis also is looking ragged — a few tries. Excuse my writing this hastily to correct my terrible blunders.

Yours truly & respectfully

* stamps that a vine bears staminate flowers only

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To W. J. Hooker — 31

Bluffton SC

Recd Apl 18
Ans — 25 —

12 Apl '74

My Dear Sir

After my last note
to you I was hurried off
to Chester where I have
since been nursing my
sick & feeble mother, — Yr.
last returned a week
letter of April. I have
at present only time — not
to answer it — very kindly
but simply to acknowledge
it's reception, & to say that
my next sending the other &
more important Vals
was due to my absence from
Home. I allude to Laurifolia
& Phellos & Arenaria & Viens.
Only a few trees of Laurifolia
were in bloom when I left &
it was fortunate that I pressed
specimens — for now the bloom

Arenaria is late as Vars. and Viens as late as Laurifolia. Same, 2 Varieties. My gift when young — 4 ft high

is over & the trees are resplendent
in their beautiful foliages — leaves
having all dropped. As before re-
-marked we of the "lowcountry" know
this tree by the name of "Water Oak"
tho' it is never seen in swamps un-
-less Phellos be the same — the latter
however is deciduous, whereas Laurifolia
retains its leaves tho' the whole winter.
As an evergreen it is next to Virens.
Ub by the by is the latest of all to
bloom! — it is now blooming, tho' the
specimens I sent in the Haelcap were
taken from the earliest trees be-
-fore I left. Obtusiloba also seems
to bloom late. Upon my return
home from the R. R here while pass-
-ing thro' the swamps I found Phellos
in full foliage, the leaves reminding
one much of the common Willow.
I obtained then the specimens sent
— only the female flis — I see dis-
-cern no trees with staminiferous flis
— either these had dropped, or were
hidden in the foliage, or had appeared
but sparsely. This may accot for the
rarity of mature fruit in the fall
ub should one. There may not be
pollen enough to impregnate the female
flis. I examined that of the

fines again

set on with

Col. [illegible]

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thing sent you as "Phellos ?". If it is not Phellos — more like Lamifolia — perhaps Aquatica, but I think, not! growing near rice-field bank. Better cast it aside as doubtful — then I send now one true Lamifolia. You refer to my P.O. Card in wh I referred to the foliage of Phellos on a few trees, — of course I meant this Spring's leaves — so far as I have seen the leaves never cling. It was very fortunate that when in Hardeville during April — for then that I shd have gathered Pumila & sent specs: to you from that place, tho' I had to go out in the rain to do it & hence sent you the plants wet & dripping — because, my darling circumstances took when I was away burnt up our kitchen & destroyed every vestige of Pumila here! That acct for the absence of a pulped spec. of Pumila in the Packages I send. I regret this occurrence much on this acct viz, the strange fact that many of my Pumila here on salt water island comes all plants bloom earlier than 20 — 30 miles off in the wet clay

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31R land — was just back pulling out flax while the bloom of Pennila about the R.R was almost over. I observed it almost the whole way to Chester in the prairie-land. It seemed rather curious, & I was anxious to send a bit of it to compare. There is now no chance of it as our prairie-lands are black & scorched & violated. I do not allude to my P. Card or letter to remarks in my letter as I am prepared to say, my negro hatreds (my chief returns! — (My former wealth returns being now "dead heads"!) — having found out that I had cried I am crying now. I have been interrupted much while writing this note — I send it as to ammend the package & same mail containing only an enclosed card. Want to say I do — observed the same effluence on Y. al as I have noticed also on Dandelion — think I'll send the leaves with Prof. Marit. & Zizy Yellow Violet. rolled in at same time. Never saw that Skyrax before this & believe I (Cum. Grandifol — & American. This is prob. Pulverulentum near neglected causeway? — Will try to send a note again — meantime I am truly no I

GEORGE ENGELMANN P...

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Rec'd April 25
Answered

Buffalo
16 Apl '74

Dr. J. Engelmann -

33

I wrote you a few days ago a hurried note merely to say that I failed to make most collections of the Vs oaks you want - viz, Laurifolia wh grows within a few miles there, all around Memphis on a sandridge in the Pine-land, Pumila also not far off & Catesbæi Phellos only to be found some 10 - 13 miles off in New River swamps! I stated that the 2 first had just come to bloom when I was unexpectedly called to Chester but that before going I had taken the precaution to send the most forward for Herb. sheets. I sent you also by the same mail a goodly package of Herb. sheets from all the oaks about me save alba & Nigra. Also all I explained to you how it happened that I sent no good ripened ones of the Pumila just here wh I was very

When Laurifolia is still mine I will send them. The Palustris seed was from many and now ripe. I also a lot of Cannas from Central Illinois.

anxious to do because it was so far
behind the Pumila 17 miles if near
R R. at Hardtsville - from which place
I sent you some dripping but beau-
-tiful specimens plucked from
diff. bushes about there. Upon my
return as you have been informed
I found my batch of the smaller leaved
& smoother Pumila all blackened &
blackened by those enfants d'Enfer
- the Darleys who find as usual the
fine-leaves! To day however having
leisure I continued my explorations
into a dumber portion of the Jeffer-
-son found that I also sent you
others of Pumila last yr. & these I
found there the bloom however was
long since (?) over tho' still clinging to
the branchlets. I have rolled up
specimens of both of these varieties (?)
of Pumila — the one hoary & green-
-ish underneath — the other smaller
leaved & smoother but both annuals
& both probably the same — the one
reminds me of Cinerea & the other
of Lanifolia or even Phellos. You will
observe the leaves of some are lobed ~~of~~
~~Lanifolia~~ but this is not unusual
with all of our oaks — you see it in
the Quercus Virens & also in Quercus
Lanifolia & Quercus Phellos.
The packages are ~~two~~ rolled up roughly
— Mr. Lin sorry for, but you can

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rely upon it that they are accurate so far as I can make them so. I send also a roll of the dwarf Vicias from same hillside from 1 foot to 2½ ft high. The long hed. of the female fls will always mark I believe Vicias. My Lapsis is a new one but I believe it is 4—6 anthers. I send also another lot of the large & fine 2. Vicias with fls not yet opened & others of Phaseolus. Usually 5—anthers it will seem — sometimes 6. very frequently 4. & even 3 ! ——— Please Examine for yourself. As for Cuscuta so far as I can estimate out there have been also 4—anthers as you state. The Hartville specimens were. You will find also a roll of Cuscuta — showing present end. — also of that tree. Please to remember that all of my specimens of Cuscuta came from one tree growing near me on the Salt Water bluff — an unusual place for it. 215 The tree habitat is 18 miles in a very sandy region country of Anthole's. In my last package there was one specimen of Cuscuta from this spot plucked when I was returning home & much wilted — it seemed softer & more tenacious than the one near me.

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32 Br

As I sent you Arenaria a Myst[a] in my last package I shall not send anymore until the rusty shovels & leaves are well advanced. This tree I've never seen anywhere else than in the 2 varieties O & O growing near each other. One must be careful in draining with these peat-bottom draws as that have been referred to the "frog ordeal" so long — how long? — 1000 years? — then two characters may be brought we know much changed thereby. I believe I told you that along the R. R. almost to Chester I observed Hamamelis & the draw plant Pyrola matted almost perfectly, & yellow in its pot even down — fruit as in the Hamamelis there! This reminds me that the only oak when flys ("the "tassels") are reddish purple are those of Cinerea, but there I have only seen the one here in flr & a few of the larger trees blooming in the pine-land — ! all the rest are yellow, or golden yellow. Got my Carex with the enclosed. Don't you think that's rather too much — it does seem so? Thanks kindness for N. country. As the fruiting seem willing to buy liberally for them. Send I think I shall try & obtain them this fall — but as for Church of Heaven the whole state of SC without fruit that — certainly my little "fall" of 100 plants or thereabouts with only a few bearing would not do it! Many things in N. 2 letters intervening — but at present I only

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(Y. Travel planters, Y. Flor. doing finely)

Bluffton S.C.

11. May 33

Thanks for yr. last, wh. was read under time. I shall reply next mail (Friday) & will send the desired specs of Pinus word &c. Seems very tough (durable (?) like Ulmus. I like the idea — as for the other thought I had cum- mured just to think about it myself !!! — but not having dozens of "loans" &c it probably won't work after. Can't say I noticed particularly the silken lustre of "taguli" of Lamifolia. I was called away to Chas. just at the time when I will have noticed particularly. All my leisure lately has been given to Ob. Exp.s with Sar.a Vaivalais not wishing the Season to pass. Hope accts for my neglect of You, — wh don't look well

Riley on smaller Entom. & bot. connected with

Consulting Mss past. — Quote to

Eby to

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United States
POSTAL CARD

WRITE THE ADDRESS ONLY ON THIS SIDE—THE MESSAGE ON THE OTHER

U.S. POST OFFICE ONE CENT

To Dr. Geo. Engelmann

3003. Locust St.

St. Louis, Mo.

MISSOURI BOTANICA[illegible]
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I enclose for yr self an extra leaf 75. Varioloid, from later portion of the matter found therein seems to eat the already cropped first

Rec'd 7th instant Blumea R 34
Aug 30 Attorney grounds.

28 May 74

To Dr Engelmann

My Dear Sir

Last week I sent you a cardcase of woody with plant letter; — having since visited the Pine-land patches of the Va varieties — I thought it best to send a word or two to you — showing their present condition, & especially the change which has occurred in that one wh struck me so much on acct of its cold & exposed leaf: you will discover very easily

Mr. Treub
Say when
2 mo/ths
Blumea
Leaf.
one. very appearance of Florisoge.

the 3? or rather 2? varieties are
separate. The other
with somewhat ~~Viola~~
leaves & drying
brown reminds me much
of the "variety" of 2. Myrtifolia
sent you, tho' the leaves
are of course not so
rigid. Yet I am per-
-suaded they all are
~~the~~ Pumila, & not
Thelly. or Cinerea, or Lanif-
-olia! The looking at
a bare of many scales
is nothing! & I believe
indicates no distinction.
I send you however also
several branchlets of
Lanifolia containing
leaves thus
thus 15-20
others with leaf thus from young
high &
thus from

MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS

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Jung & much shatt trees of aquatica in a dark Cove. You allmost have seen the same in Post hist Shrubs of Pine-barren Veins & Smilax. the same thing occurs in Pumila. I sent also the 2 Sp Themes of Veins. wh will readily distinguish. You did not refer to the terrestr & rigid leaves of Veins — fully as much so as Myst- folia, & the very long leaves are distinct sometimes to roll up almost like Pumila — especially those in pine-land Subjects to fire. Grapes also in back. — Cordyol — & Vulp. and Astivalis?

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34

Thursday Sept 1st 1898

Dear Mr Riley

I have already had a great many banana ices & two ices with nuts.

I send Asclepias amplexicaulis which has just made its appearance here in sandy pine-land. It was the most abundant of all the asclepias in Beaufort when I spent a part of my early boyhood & it was like meeting an old friend to come across it! The very odor of the milk (it is the most milky of all) was exquisite as telling of the days that are no more. I shall hardly [illegible] with you. Shall try to have a midnight eat in the Turnley region next week & if so will look up eye on Phellos & also Lyrata, if the last is to be seen.

Please give the eaten leaves of S. Variolaris to Mr Riley with larvae also, - as he is just now the person! I sent him a few words on Post card notifying him. - hope I'm not boring him but I have been much interested in that plant.

Please handover this. Yours truly J Donn

35

Myrtle — Bluffton S.C.
21. June '74

From what you said in your last I inferred that other spec's of Quercus grown advanced south would be acceptable. I therefore send now a backage cont's. Laurifolia. Michauxii. Obtusifolia. Aquatica. Alba. and the 3 or 4 varieties of Pumila also the 2. var. of Myrtifolia or Arenaria. This last on the outside of package under leaves of Sarracenia - Naiadains. I was anxious that you should see the sugary exudation leading from the cleft of lower lip to the ground along the whole border of the wing. — I therefore sanded that portion, & for the time it stuck. I trust all knocked off in the mail you'll be able to "see the trail". Doubtless if you press the flaps along this border you will see a few grs of sand at any rate, which will reveal the pathway. In spite of resisting the hard knocks on R.R. The leaves are tied & retied. I heard you were

Myrtle — Alas! no Ivrea! Same time, yet [illegible]

United States

Postal Card

WRITE THE ADDRESS ONLY ON THIS SIDE—THE MESSAGE ON THE OTHER

U.S. POSTAGE ONE CENT

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To Geo. Engelmann

3003 Locust St

St Louis Mo

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Rec'd Oct. 3 2
Ans — 14

36

St. Louis

28 Sept

My Dear Engelmann

Thanks for your kind letter of 20 Sept. & for the fragments of grass sent. I am sure the alterations & additions you suggest will be very valuable, but I am much obliged to you for thus giving them to me. It is right to tell you that when I sent the specimens of Panicula attenuata & sent them up to the Rocky Mountains I did not examine them & did not see what you saw — nor

A hunt for a clerkship — but it such hints, — but it at your shrine to help me!

Truly Yours

Asa Gray

Postscript

Thanks for your kind letter of 20 Sept. & for the fragments of grass sent. I am sure the alterations & additions you suggest will be very valuable, but I am much obliged to you for thus giving them to me. It is right to tell you that when I sent the specimens of Panicula attenuata & sent them up to the Rocky Mountains I did not examine them & did not see what you saw — nor

Main, this, new, in two tops
main, but is to Pub into
Rocky's Grandiss
Growing sulfs T & lubs!
-calles!

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As soon as I have leisure
I will set myself to the pine-
cone & see for myself what
may be to. At present
I am much [illegible], as many
as may [illegible] & I
[illegible] about [illegible] between
here & the Sierras. Going
to Beaufort the [illegible] day — I
believe I saw a tree of 2.
[illegible], somewhere about [illegible]
asses, — don't jump out
of the cars & break my neck
even for so rare a specimen
as [illegible] — I
haven't heard from him, —
but his [illegible] dictates —
(and rules!) sent me a
few nicely [illegible] pine-
of 2 Ruby [illegible]

[illegible] — should [illegible]

[illegible] — [illegible] 3 [illegible]

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GEORGE

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to Mem. the March walk! No
chance of getting them unless I
point the fine Lycopus. This
fall, ult is hardly possible.
You speak of Mimulus ringens
finding the tubes of Sarracenia at
the South (?) full a half
full of the secretion. Probably
other varieties will admit rain
water — S. flava evidently does.
In the Spring, as you know, I
found from 15 drops to half-spoonful.
Since then I've found more — some-
times 3i — rarely 3ii — seldom a
pint or more. Of course the exact amt
of secretion it is hard to get at accu-
-rately — because when the mass is
semi-liquid (2 — 3 — 4 — 5 inches of
tube) a fly till it, only a few
black tufts of hairs issue from
the mouth. Frequently the
whole upper lip has been torn
away, or the tube pierced or mutil-
-ated in some way. I've seen it
half full or a full of pure
rain water. Patrick M. Mems

Lair! 3 N 75 W — 1 — Small — Travel — 2 days wet!

ant-x

368 may have seen S. Var in the mutilated state from careful exam! I'm about to send summer — I know that the true secretion very seldom goes over 3/1 — seldom reaches that, it seems to me. I have since examined some luxuriant patches of S. V with even odour & fragrant with honey! — in these a white a other cottonwool & tender almost the whole body of wing (honey trail) out side, & within for ½ to 1 inch over the Honey hairs there. Although the Exudation has long since dried up (don't last in its viscid glistening state but a very short time) & only the above white residue of the sugar(?) left, still, even the honey odour unmistakable; this year I found 2 bees strange to me — One the large black bee, & the other the true honey bee; & lately I found a large beef with a large snail blocking up the middle third of the tube. 2 of those beautiful millers — Utricea Bella & below were found on (?), & the drooping moth — over a Calyptris — &c &c. Not always sugar attracts! — what then? carnivorous instincts? Cert!. — acid! Sir Isaac newton! — I congratulate my S. D. the 6th burnt me out of house & home in '63 & since then I've been wandering about from hotel to hotel & at last I've got into a shanty of my own & can look up at my own roof!! A delicious feeling! — even tho' my "castle" be unfurnished in the most abbreviated cavalier style — but true pastor at last! Over the road yesterday in a damp wet-land I saw the smallest wild rose bush I've ever seen — have hardly found it — seems to be Lindheimeria Cubitata? — must be very rare about here at least send it for you to look at in Colorado — will you go on till you reach Brigham's tomorrow?